

MACAO / Intl (VMMC)  
RWY 34  
RNAV (GNSS) GRUPA 4T SID

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**Aircraft shall fly at 250 KIAS or less below FL 110.**

Amendment 11/24

## FMC Database Coding Reference for Macao RNAV<sub>(GNSS)</sub> SID

### TABULAR DESCRIPTION: GRUPA 4T Runway 34

| Serial Number                                                                          | Path Descriptor | Waypoint Identifier | Fly-over | Course °M (°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (ft)    | Speed (KIAS) | Navigation Specification |
|----------------------------------------------------------------------------------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|------------------|--------------|--------------------------|
| Aircraft shall comply with the Macao RWY34 SID procedure as published in the AIP Macao |                 |                     |          |                |                    |               |                |                  |              |                          |
| 01                                                                                     | TF              | MC411               | -        | -              | +3.0               | -             | -              | +5500            | -250         | RNP 1                    |
| 02                                                                                     | TF              | LUKBU               | -        | 081 (078)      | +3.0               | 5.1           | -              | +6000            | -            | RNP 1                    |
| 03                                                                                     | TF              | MC311               | -        | 153 (150)      | +3.0               | 10.9          | -              | +9000            | -            | RNP 1                    |
| 04                                                                                     | TF              | MC312               | -        | 124 (121)      | +3.0               | 9.8           | -              | -FL160<br>+FL130 | -            | RNP 1                    |
| 05                                                                                     | TF              | VEDVO               | -        | 120 (117)      | +3.0               | 8.0           | -              | +FL140           | -            | RNP 1                    |
| 06                                                                                     | TF              | SEGPO               | -        | 147 (144)      | +3.0               | 8.8           | -              | +FL170           | -            | RNP 1                    |
| 07                                                                                     | TF              | DAKIG               | -        | 147 (144)      | +3.0               | 8.2           | -              | -                | -            | RNP 1                    |
| 08                                                                                     | TF              | DALOL               | -        | 108 (105)      | +3.0               | 23.4          | -              | -                | -            | RNP 1                    |
| 09                                                                                     | TF              | XEMEK               | -        | 130 (127)      | +3.0               | 10.5          | -              | -                | -            | RNP 1                    |
| 10                                                                                     | TF              | SKATE               | -        | 130 (127)      | +3.0               | 10.5          | -              | -                | -            | RNP 1                    |
| 11                                                                                     | TF              | GRUPA               | -        | 135 (132)      | +3.0               | 61.0          | -              | -                | -            | RNP 1                    |

### WAYPOINT LIST

| GRUPA 4T RWY 34     |                      |               |
|---------------------|----------------------|---------------|
|                     |                      |               |
| Waypoint Identifier | Coordinates (WGS-84) |               |
| MC411               | 22 21 41.20N         | 113 47 37.58E |
| LUKBU               | 22 22 44.12N         | 113 53 01.50E |
| MC311               | 22 13 18.51N         | 113 58 56.18E |
| MC312               | 22 08 16.69N         | 114 08 02.37E |
| VEDVO               | 22 04 38.19N         | 114 15 43.05E |
| SEGPO               | 21 57 32.77N         | 114 21 18.59E |
| DAKIG               | 21 50 52.90N         | 114 26 33.33E |
| DALOL               | 21 44 36.90N         | 114 50 45.34E |
| XEMEK               | 21 38 16.17N         | 114 59 43.04E |
| SKATE               | 21 31 54.99N         | 115 08 39.94E |
| GRUPA               | 20 50 44.00N         | 115 56 59.00E |